UTILITY PATENT APPLICATION TRANSMITTAL

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U.S. PTO	UTILITY PATENT APPLICATION TRANSMITTAL	Attorney Docket No.	IB-1825	
		First Inventor	Ki Ha Lee Source-Independent Full Waveform Inversion of Seismic Data	
		Title		
	(Only for new nonprovisional applications under 37 CFR 1.53(b))	Express Mail Label No.	EV 240598962 US	

(Only for flow floriprovisional applications under or or firef.so(b))	Express Mail Label No. LV 240396902 03								
APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.	ADDRESS TO: Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450								
1. X Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing) Applicant claims small entity status. See 37 CFR 1.27. 3. X Specification [Total Pages 33] (preferred arrangement set forth below) - Descriptive title of the invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention - Brief Summary of the Drawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure 4. X Drawing(s) (35 U.S.C. 113) [Total Sheets 4]	7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. Computer Readable Form (CRF) b. Specification Sequence Listing on: i. CD-ROM or CD-R (2 copies); or ii. Paper c. Statements verifying identity of above copies ACCOMPANYING APPLICATION PARTS 9. X Assignment Papers (cover sheet & document(s)) 10. X 37 CFR 3.73(b) Statement Power of								
5. Oath or Declaration [Total Sheets 2] a. X Newly executed (original or copy)	(when there is an assignee) Attorney 11. English Translation Document (if applicable)								
b. Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed) i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) name in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b). 6. Application Data Sheet. See 37 CFR 1.76	12. X Information Disclosure X Copies of IDS Statement (IDS)/PTO-1449 Citations 13. Preliminary Amendment 14. X Return Receipt Postcard (MPEP 503) (Should be specifically itemized) 15. Certified Copy of Priority Document(s) (if foreign priority is claimed) Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. 17. X Other: Dupl. Fee Transmittal for payment by Deposit Acct. 120690								
specification following the title, or in an Application Data Sheet under 3	7 CFR 1.76:								
Continuation Divisional Continuation-in-part (CIP) of prior application No.: Prior application information: Examiner Art Unit: For CONTINUATION OF DIVISIONAL APPS only; The entire disclosure of the prior application, from which an eath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.									
19. CORRESPON	DENCE ADDRESS								
X Customer Number: 08076 OR ☐ Correspondence address below									
Name									
Address									
	O								
City	State Zip Code								
Country	elephone Fax								
Name (Print/Type) Joseph Ray Milner Registration No. (Attorney/Agent) 42,896									
Signature Const (a.)	Date 3/4/2								

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

SUBMITTED BY

Name (Print/Type)

Joseph Ray Milner

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for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

|X| Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 511.00

Complete if Known						
Application Number	Not Yet Assigned					
Filing Date	March 11, 2004					
First Named Inventor	Ki Ha Lee					
Examiner Name	Not Yet Assigned					
Art Unit	Not Yet Assigned					

IB-1825

Attorney Docket No.

Approved for use through 07/31/2006. OMB 0651-0032 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

(Complete_(if applicable)

Date

Telephone 510-486-4672

PTO/SB/17 (10-03)

METH	FEE CALCULATION (∞ntinued)						
Check	3. ADDITIONAL FEES						
X Deposit	Large_	Entity		Entity			
Deposit		Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
Account Number	120690	1051	130	2051		Surcharge - late filing fee or oath	ree Palu
Deposit	Towns Delale No.	1052	50	2052		Surcharge - late provisional filing fee or	
Account Name	Lawrence Berkeley National Laboratory	1053				cover sheet	
The Director is authorized to: (check all that apply)			130	1053		Non-English specification	
X Charge fee(s) indicated below X Credit any overpayments			2,520	1812	_,,		
X Charge an	y additional fee(s) or any underpayment of fee(s)	1804	920*	1804	920"	Requesting publication of SIR prior to Examiner action	
Charge fee	(s) indicated below, except for the filing fee	1805	1,840*	1805	1,840*	Requesting publication of SIR after	
to the above-ic	entified deposit account.					Examiner action	
	FEE CALCULATION	1251	110	2251		Extension for reply within first month	
1. BASIC F		1252	420	2252	210	Extension for reply within second month	
Large Entity Fee Fee		1253	950	2253		Extension for reply within third month	
Code (\$)	Fee Fee Paid Fee Paid Fee Paid	1254	1,480	2254		Extension for reply within fourth month	
1001 770	2001 385 Utility filing fee 385.00	1255	2,010	2255	1,005	Extension for reply within fifth month	-
1002 340	2002 170 Design filing fee	1401	330	2401	165	Notice of Appeal	
1003 530	2003 265 Plant filing fee	1402	330	2402	165	Filing brief in support of an appeal	
1004 770	2004 385 Reissue filing fee	1403	290	2403	145	Request for oral hearing	
1005 160	2005 80 Provisional filing fee	1451	1,510	1451	1,510	Petition to institute a public use proceeding	
	SUBTOTAL (1) (\$) 385.00	1452	110	2452	55	Petition to revive - unavoidable	
			1,330	2453	665	Petition to revive - unintentional	
2. EXTRA	CLAIM FEES FOR UTILITY AND REISSUE Fee from	1501	1,330	2501	665	Utility issue fee (or reissue)	
Tatal Olaima	Extra Claims below Fee Paid	1502	480	2502	240	Design issue fee	
Total Claims Independent	18 -20** = 0 × = 0	1503	640	2503	320	Plant issue fee	
Claims	5 · 3** = 2 × 43 = 86	1460	130	1460	130	Petitions to the Commissioner	
Multiple Depe	noem =	1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
Large Entity Fee Fee		1806	180	1806	180	Submission of Information Disclosure Stmt	
Code (\$)	Code (\$)	8021	40	8021	40	Recording each patent assignment per property (times number of properties)	40.00
1202 18 1201 86	2202 9 Claims in excess of 20 2201 43 Independent claims in excess of 3	1809	770	2809	385	Filing a submission after final rejection	
1201 66	2203 145 Multiple dependent claim, if not paid	1810	770	2810	385	(37 CFR 1.129(a)) For each additional invention to be	
1204 86	2204 43 ** Reissue independent claims					examined (37 CFR 1.129(b))	
	over original patent	1801	770	2801		Request for Continued Examination (RCE)	
1205 18	2205 9 ** Reissue claims in excess of 20 and over original patent	1802	900	1802	900	Request for expedited examination of a design application	
SUBTOTAL (2) (\$) 86.00			Other fee (specify)				
**or number previously paid, if greater; For Reissues, see above			*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 40.00				

March 11, 2004 Signature WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Registration No.

(Attorney/Agent)

42,896